

**Commonwealth of Kentucky**  
**Division for Air Quality**  
**EXECUTIVE SUMMARY**

FINAL

Conditional Major, Construction / Operating

Permit: F-08-022

Givaudan Flavors Corporation

Florence, KY 41042

September 30, 2008

Durga Patil/ Ron Schneider, Reviewers

SOURCE ID:	21-015-00150
AGENCY INTEREST:	4590
ACTIVITY:	APE20080002, APE20080003

**SOURCE DESCRIPTION:**

Givaudan Flavors Corporation manufactures meat and other type flavors for the food industry. The Givaudan operation in Florence, Kentucky is similar to the processes now in operation at their Cincinnati facility.

On March 10, 2008, Givaudan Flavors Corporation submitted an application to increase throughputs for emission points 01(P01) – 05(P05). The proposed increases for maximum product throughputs are as follows: for 01(P01), from 0.5 tons/hr to 0.6tons/hr; for 02(P02), 0.53 tons/hr to 4.5 tons/hr; for 03(P03) and 04(P04), 2.65 tons/hr to 4.5 tons/hr; for 05(P05), 2.65 tons/hr to 9.00 tons/hr. The increased throughputs would cause the source's potential to emit (PTE) for particulate matter to exceed 100 tons per year (TPY), making the source no longer eligible for a state-origin permit.

The source had proposed that it remain a state-origin source under 401 KAR 52:080, but the Division denied the request in a letter dated March 12, 2008, since the Division is preparing to repeal 401 KAR 52:080. Givaudan resubmitted the application on April 23, 2008 as an application for a conditional major permit.

This conditional major permit also incorporates an application, received May 6, 2008, to install two new pollutant sources:

Emission point **07(P07)**, a 2,700 lb/hr spray dryer (#1 Spray Dryer) and other associated equipment. The spray dryer will be equipped with a scrubber demister for particulate control and will be exhausted through the existing thermal oxidizer for odor control. The prefilter present on the thermal oxidiser may capture PM<sub>10</sub>, this capture efficiency is not used for emission estimates. The associated equipment for the dryer system includes a drying air fan, product cooling fan, an exhaust fan, and an indirect heater and dehumidifier for the drying air stream.

Emission point **08(P08)**, a batching system to feed the spray dryer. The batching system will consist of two super sack dispensing stations, a tote dispensing station, a maltodextrin receiver, and a manual dump station. A dust collector will be used to control emissions from the batching system. The batching system feeds either the batch tank or hold tank, both of which will also be vented to the dust collector to allow for the manual addition of dry materials to either of those tanks.

#### **PUBLIC AND U.S. EPA REVIEW:**

On July 10, 2008, the public notice on availability of the draft permit and supporting material for comments by persons affected by the plant was published in Boone County Recorder in Florence, Kentucky. In addition, notification of the issuance of the draft permit was sent to the U.S. EPA on July 7, 2008 via e-mail. The public comment period expired 30 days from the date of publication.

Comments were received from Givaudan Flavors. Attachment B lists the comments received, the Division's response to each comment, and a detailed explanation of the changes made to the permit. Minor changes were made to the permit as a result of the comments received; however, in no case were any emissions standards, or any monitoring, recordkeeping or reporting requirements relaxed.